

Title (en)  
Compatible optical recording medium

Title (de)  
Kompatibles optisches Aufzeichnungsmedium

Title (fr)  
Support d'enregistrement optique compatible

Publication  
**EP 1933313 A1 20080618 (EN)**

Application  
**EP 06301252 A 20061214**

Priority  
EP 06301252 A 20061214

Abstract (en)  
The optical recording medium has a recording layer (2) sensitive for recording at a first wavelength and sensitive for reading at a second wavelength, the recording layer (2) having a groove structure (4), wherein at the first wavelength the groove structure (4) has a diffraction efficiency into a first diffraction order sufficiently large to generate a push-pull signal, and at the second wavelength it has a diffraction efficiency into a first diffraction order close to zero. The optical pickup has a light source for generating a light beam (6) at a first wavelength and a numerical aperture given by the second numerical aperture multiplied with the ratio of the first wavelength and the second wavelength.

IPC 8 full level  
**G11B 7/0045** (2006.01); **G11B 7/005** (2006.01); **G11B 7/007** (2006.01); **G11B 7/125** (2006.01); **G11B 7/135** (2006.01); **G11B 7/24** (2006.01); **G11B 7/24079** (2013.01); **G11B 7/24097** (2013.01)

CPC (source: EP)  
**G11B 7/24079** (2013.01); **G11B 7/24097** (2013.01); **G11B 7/0045** (2013.01); **G11B 7/005** (2013.01)

Citation (search report)  
[XA] WO 2005017886 A2 20050224 - KONINKL PHILIPS ELECTRONICS NV [NL], et al

Cited by  
EP2187392A1; EP2261905A1; EP2360689A1; EP2126910A4; EP2273498A1; EP2161721A1; WO2010057785A1; WO2010142547A1; US7804752B2; WO2008097889A2

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

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